

ABSTRACT OF THE DISCLOSURE

A coating solution is applied to a web to form a coating layer. Then the web is transported into a drying apparatus, in which a guide roller guides the web such that an angle of the web to a horizontal direction is smaller downstream from the guide roller. The angles at entrance and exit of the drying apparatus are named entrance and exit angles θ_1 , θ_3 , respectively, and satisfy a condition $\theta_1 > \theta_3$. The coating layer has the temperature T_1 at the entrance, the temperature T_2 at the exit, and the temperature T_3 in the drying apparatus. The differences $|T_2 - T_1|$ and $|T_3 - T_1|$ are at most $5\text{ }^{\circ}\text{C}$. In the drying apparatus, as the organic solvent evaporates uniformly, the generation of the unevenness is reduced. Thereafter, the drying is made at the large drying speed in the blow-drying apparatus to obtain a film product.